

## PATENT ABSTRACTS OF JAPAN

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(71)Applicant : MITSUBISHI ELECTRIC CORP

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(72)Inventor : SANO TATSURO

## (54) METHOD AND DEVICE FOR ARRANGING GRAPHIC

## (57)Abstract:

PROBLEM TO BE SOLVED: To obtain graphic arrangement method and device capable of obtaining graphics easy to see and in which interactive graphic edition is taken into consideration.

SOLUTION: In the graphic arrangement method for non-hierarchally arranging graphics, an ideal distance between two nodes is set up as an increment function of the number of arcs connected to the nodes. An ideal distance between two nodes included in plural arcs is set up as the sum of ideal distances of arcs constituting a path between the nodes. The sum of values of increment function of difference between the ideal inter-node distance and practical inter-node distance for all nodes is defined as an evaluation function and the arrangement of nodes is sequentially changed so that the value of the evaluation function is minimized on plane arrangement. On the other hand, force applied between nodes is defined based upon a difference between the ideal inter-node distance and the practical inter-node distance and the node arrangement is sequentially changed so that force applied among all nodes is balanced on the plane arrangement.

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